

ARD-4 FORM INFORMATION REQUIRED FOR PERMITS FOR STORAGE TANKS CONTAINING FUEL OR VOLATILE ORGANIC COMPOUNDS



Air Resources Division/Permitting and Environmental Health Bureau

RSA/Rule: RSA 125-C:12 and Env-A 1700

Tank Description:		
Date Construction Commenced ¹ :	Initial Fill Date¹:	
Location: Underground Ab	poveground	
A. Tank Type		
☐ Floating Roof Covered Type ☐ Floating Roof Open Type: ☐ Pan ☐ Pontoon ☐ Double Deck	Lifter Roof Flexible Diaphragm Seal Type: Single Double Welded	Spheroid Horizontal Cylinder Vertical Cylinder Internal Pressure: —@°F
4. Other Tank Type (specify): B. Tank Information	Connected to Other Tanks? Specify Other Tanks:	
· · · · · · · · · · · · · · · · · · ·	Connected to Other Tanks? Specify Other Tanks:	
B. Tank Information	Connected to Other Tanks? Specify Other Tanks:	
B. Tank Information Height (feet)	Connected to Other Tanks? Specify Other Tanks: Inside Diameter (feet) Roof	Slope (inches/ft)
B. Tank Information Height (feet) Roof Color	Connected to Other Tanks? Specify Other Tanks: Inside Diameter (feet) Side Color Annual Throughput (Slope (inches/ft)
B. Tank Information Height (feet) Roof Color Tank Fill Capacity (gallons) Yes No If Yes	Connected to Other Tanks? Specify Other Tanks: Inside Diameter (feet) Side Color Annual Throughput (Slope (inches/ft)
B. Tank Information Height (feet) Roof Color Tank Fill Capacity (gallons) Yes No If Yes Insulated?	Connected to Other Tanks? Specify Other Tanks: Inside Diameter (feet) Side Color Annual Throughput (es:	Slope (inches/ft)
B. Tank Information Height (feet) Roof Color Tank Fill Capacity (gallons) Yes No If Yes Insulated?	Connected to Other Tanks? Specify Other Tanks: Inside Diameter (feet) Side Color Annual Throughput (es:	Slope (inches/ft)

	For variable vapor space systems:		
	Actual Annual Number of Shipments into	Tank:	
	Actual volume per shipment (gallons):		
	Potential volume expansion capability of	variable vapor	space (gallons):
	Pressure Setting (lb/in²): V	/acuum Setting	(lb/in²):
C.	Liquid Information		
	Liquid Type		Molecular Weight
	Average Bulk Liquid Temperature (°F)		True vapor pressure (psia) at average bulk liquid temperature (60°F)
	Average density at bulk liquid conditions	(lbs/gal)	
D.	Stack Information Is emission unit equipped with multiple st Are multiple units connected to this stack (If yes, identify other devices on this stack	:? Tes	

Stack #	Discharge Height Above Ground Level (ft)	Inside Diameter (ft) or Area (ft²) at Stack Exit²	Exhaust Temperature (°F)	Exhaust Flow (acfm)	Stack Capped or Otherwise Restricted ³ (Yes - Type/No)	Exhaust Orientation ⁴	Stack Monitor (Yes/No) and Description
#5 (Ex)	65 ft (Example)	4 ft (Example)	70 °F (Example)	1500 acfm (Example)	Yes - Rain Cap (Example)	Vertical (Example)	No (Example)

Env-A 810.

II. UNCONTROLLED AIR POLLUTANT EMISSIONS (list emissions <u>prior</u> to add on controls – use additional sheets if necessary)

Pollutant	Emission Factor	Units	Emission Factor Source ⁵	Actual (lb/hr)	Potential (lb/hr)	Actual (tpy)	Potential (tpy)

Provide an example of the calcula	tions used to determine uncontrolled air pollutant emissions, if applicable:
II. POLLUTION CONTROL EQUIP	MENT
Not Applicable	
Note: If the emission unit utilizes of equipment.	s more than one type of pollution control equipment, provide data for each type
A. Type of Equipment:	
B. For each control device, in	nclude an Air Pollution Control Equipment Monitoring Plan pursuant to

C. Controlled Air Pollution Emissions (list emissions after all add on controls – use additional sheets if necessary)

Pollutant	Controlled Emission Factor	Units	Emission Factor Source ⁵	Actual (lb/hr)	Potential (lb/hr)	Actual (tpy)	Potential (tpy)

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Provide an example of the calculations used to determine controlled air pollutant emissions, if applicable:		

ARD-4 FORM INFORMATION INSTRUCTIONS

- 1 If exact date is unknown for Date Construction Commenced or Initial Fill Date, you may use 01/01/year. Date Construction Commenced refers to the date the owner or operator has entered into a contractual obligation to undertake and complete a continuous program of construction, reconstruction, or modification of the tank. Initial Fill Date refers to the date the tank is first filled at the facility; also when operation commenced.
- 2 Examples of Inside Diameter or Area at Stack Exit: Diameter at discharge point of convergence cone, if applicable
- 3 Flapper valves and other devices which do not restrict the vertical exhaust flow while the emission unit is operating are not considered obstructions or restrictions.
- 4 Examples of Exhaust Orientation: Vertical, Horizontal, Downward

 Note: for a stack to be considered vertical and unobstructed, there shall be no impediment to vertical flow, and the exhaust stack extends 2 feet higher than any roofline within 10 horizontal feet of the exhaust stack
- 5 Emission factor sources may include:
 - Continuous Emissions Monitor (CEM)
 - Stack Test (Provide Date)
 - Vendor Guaranteed Rates (Provide Documentation)
 - AP-42 Emission Factors
 - Material Balance (Provide Sample Calculation)
 - Engineering Estimate